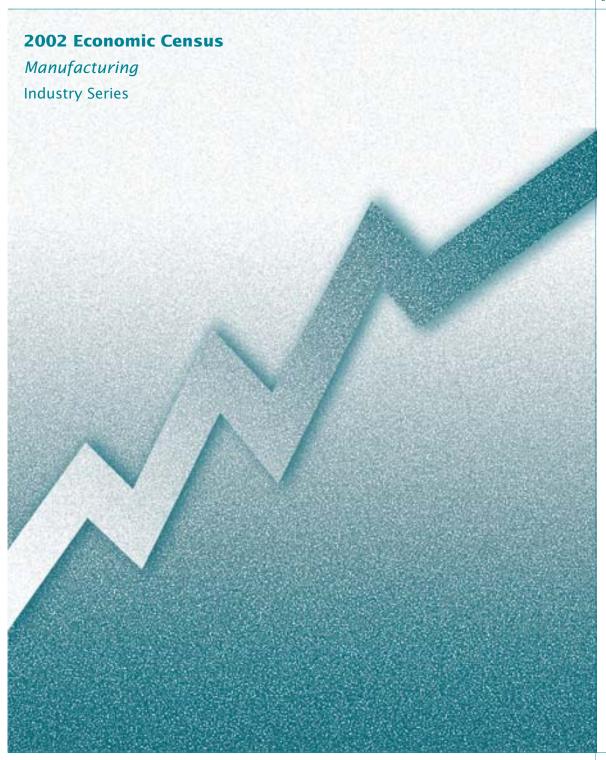
Electroplating, Plating, Polishing, Anodizing, and Coloring: 2002

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Helping You Make Informed Decisions

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All			Production workers				Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	shipments	expendi- tures (\$1,000)
332813, Electroplating, plating, polishing,											
anodizing, and coloring2002	2 923	3 050	61 093	1 923 945	47 864	94 264	1 265 832	3 775 567	1 708 122	5 487 592	265 884
2001	N	N	70 092	2 097 407	55 652	112 318	1 355 558	4 038 417	1 856 246	5 894 632	214 076
2000	N	N	75 287	2 274 710	60 403	119 325	1 471 497	4 516 120	2 033 205	6 552 060	254 920
1999	N	N	72 330	2 123 218	58 016	115 749	1 366 984	4 272 424	1 865 715	6 136 303	246 867
1998	N	N	75 163	2 180 909	59 725	119 490	1 399 046	4 200 645	1 807 373	6 021 389	312 905
1997	3 286	3 401	74 631	2 089 931	58 133	115 129	1 314 744	4 156 206	1 828 896	5 998 431	294 209

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

									-			
		All establ	ishments ²	All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
332813, Electroplating, plating, polishing, anodizing, and coloring												
United States. Arizona Arkansas California Colorado Connecticut Illinois Indiana Iowa Louisiana Massachusetts	1 3 -2 1 1 1 1 5 1 2	3 050 48 14 570 32 86 256 87 16 16	827 5 1 172 4 33 82 38 2 1 32	61 093 452 600 11 586 348 2 392 5 939 2 275 186 130 1 998	1 923 945 13 209 20 738 341 129 11 789 85 194 205 830 71 206 4 700 3 741 70 474	47 864 356 544 9 335 244 1 839 4 469 1 771 148 80 1 492	94 264 638 1 286 18 138 508 3 571 9 229 3 633 194 145 3 061	1 265 832 9 285 18 462 232 032 6 922 54 574 127 102 46 255 3 121 2 106 42 643	3 775 567 25 621 47 823 611 673 19 529 159 188 416 189 145 428 10 121 15 058 131 974	1 708 122 8 437 25 602 237 759 11 618 90 440 199 772 64 373 3 841 16 466 43 794	5 487 592 34 187 73 115 854 029 31 263 250 359 617 471 209 842 13 966 30 673 175 902	265 884 2 328 1 439 47 936 2 083 10 213 25 731 8 842 1 497 1 152 9 290
Michigan . Minnesota . Missouri . Nevada . New Jersey . North Carolina . Ohio . Oklahoma . Oregon .	1 1 2 3 2 2 1 - 4 2	205 77 52 14 86 121 56 256 34 42	66 25 12 6 14 25 10 76 7	5 935 2 234 821 271 979 1 885 694 5 722 422 596	187 843 70 056 24 037 8 436 36 539 53 774 23 421 172 061 13 881 17 551	4 644 1 751 662 218 680 1 458 546 4 596 329 502	9 405 3 618 1 266 474 1 267 2 758 1 106 8 770 602 903	124 441 47 242 15 890 5 456 19 946 33 992 16 094 117 338 9 496 13 104	387 598 126 308 53 748 14 879 59 871 110 910 58 012 416 154 24 860 32 068	146 764 64 595 27 496 3 364 30 177 37 676 41 652 287 613 7 092 9 091	532 282 191 022 79 672 18 264 90 413 148 743 100 162 701 234 32 001 41 232	29 265 9 128 6 380 521 6 123 6 610 2 879 25 311 2 168 1 991
Pennsylvania Rhode Island Tennessee Texas Washington Wisconsin	1 2 1 1 1	116 69 53 153 40 96	30 15 18 35 8 26	2 033 1 256 1 230 2 456 805 2 307	68 911 38 813 35 597 77 515 27 257 73 624	1 542 1 016 1 007 1 952 563 1 844	2 895 1 942 1 872 4 119 1 018 3 794	42 379 26 660 25 960 51 628 15 182 50 000	132 918 72 963 66 899 143 104 44 029 128 059	68 645 35 580 34 942 51 806 9 921 43 234	206 119 107 934 101 582 193 495 54 055 171 390	8 961 4 699 8 189 7 123 1 553 7 666

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll and the 12th of March.

period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
332813, Electroplating, plating, polishing, anodizing, and coloring	
Companies ¹ number	2 923
All establishments ² number . Establishments with 1 to 19 employees number . Establishments with 20 to 99 employees number . Establishments with 100 employees or more number	3 050 2 223 730 97
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	61 093 2 265 792 1 923 945 341 847
Production workers, average for year	47 864 47 741 48 008 47 821 47 727
Production worker hours	94 264 1 265 832
Total cost of materials \$1,000 Materials, parts, containers, packaging, etc., used \$1,000 Resales \$1,000 Purchased fuels \$1,000 Purchased electricity \$1,000 Contract work \$1,000	1 708 122 1 340 516 33 788 84 918 154 236 94 664
Quantity of electricity purchased for heat and power	2 256 844 19 506
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	5 487 592 5 117 949 196 458 173 185 40 380 107 359 25 446
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	96 5 662 247 5 117 949 544 298
Coverage ratiopercent.	90
Value added	3 775 567
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	312 383 92 159 48 631 171 607
Total inventories, end of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	286 622 89 141 47 746 149 749
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000. Total capital expenditures (new and used) \$1,000. Buildings and other structures (new and used) \$1,000. Machinery and equipment (new and used) \$1,000. Automobiles, trucks, etc., for highway use \$1,000. Computers and peripheral data processing equipment \$1,000. All other expenditures for machinery and equipment \$1,000. Total retirements \$1,000. Gross value of depreciable assets at end of year \$1,000.	2 927 589 265 884 26 038 239 846 20 172 20 808 198 866 143 175 3 050 298
Depreciation charges during year\$1,000	215 990
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	140 152 96 579 43 573
Total other expenses ⁴	909 326 78 66 756 15 714 10 562 13 630 14 606 6 269 37 750 21 600 40 475 681 964

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All employees		Pi	roduction worke	ers		Total	Tatal	Total
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	capital expendi- tures (\$1,000)
332813, Electroplating, plating, polishing, anodizing, and coloring											
All establishments Establishments with — 1 to 4 employees. 5 to 9 employees. 10 to 19 employees 20 to 49 employees 50 to 99 employees 100 to 249 employees 250 to 499 employees 500 to 999 employees 1,000 to 2,499 employees 1,000 to 2,499 employees 2,500 employees 2,500 employees or more	1 8 3 2 1 - - - -	3 050 1 092 499 632 504 226 86 86 8	61 093 2 172 3 451 8 865 15 728 15 205 11 545 2 460 1 667	1 923 945 69 260 111 839 278 543 495 659 487 715 358 428 75 828 46 673	47 864 1 710 2 565 6 661 12 278 12 089 9 130 1 979 1 452 —	94 264 3 237 4 981 12 410 23 983 24 497 17 864 4 262 3 030 ———	1 265 832 45 997 74 680 180 103 326 890 318 004 230 276 52 513 37 369 —	3 775 567 133 711 216 335 537 515 989 115 933 862 733 799 137 098 94 132	1 708 122 42 057 73 192 180 593 348 063 536 750 392 088 51 677 83 702	5 487 592 175 747 289 586 717 114 1 337 028 1 478 563 1 125 591 186 527 177 436	265 884 12 784 18 263 46 047 81 087 49 798 47 883 6 061 3 961
Administrative records ⁴	9	1 040	2 710	85 738	2 169	4 185	57 041	164 772	52 065	216 575	16 095

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent; or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All	All em	ployees	Pi	oduction work	ers		Total	Total	Total capital
		estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
332813	Electroplating, plating, polishing, anodizing, and coloring	3 050	61 093	1 923 945	47 864	94 264	1 265 832	3 775 567	1 708 122	5 487 592	265 884
3328130	Electroplating, plating, polishing, anodizing, and coloring	3 050	61 093	1 923 945	47 864	94 264	1 265 832	3 775 567	1 708 122	5 487 592	265 884

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product shipments		
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
332813	Electroplating, plating, polishing, anodizing, and coloring	ZZ	X	X	5 662 247 6 146 442	
3328130	Electroplating, plating, polishing, anodizing, and coloring	N	X	×	5 662 247 6 146 442	
33281301	Electroplating, plating, polishing, and anodizing	N N	ŝ	ĺ ŝ	5 471 284	
3328130101	Electroplating, plating, polishing, anodizing, and coloring	1 733	X	X	5 983 720 5 152 253	
3328130102	1997 Laminating steel for the trade	200 N	X X X	X X X	319 031 N	
3328130Y	Electroplating, plating, polishing, anodizing, and coloring, nsk, total		, , , , , , , , , , , , , , , , , , ,	, ,	190 963	
	1997	N N	X		162 722	
3328130YWW	Electroplating, plating, polishing, anodizing, and coloring, nsk, for nonadministrative-record establishments	N N	X	X X	57 744 727	
3328130YWY	Electroplating, plating, polishing, anodizing, and coloring, nsk, for administrative-record establishments	N N	X	×	133 219 161 995	

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997 [Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
332813	Electroplating, plating, polishing, anodizing, and coloring		
00900001	Total materials	X	1 340 516
33200005	Fabricated metal products, including forgings	X	1 403 641 102 693
33100035	Castings, rough and semifinished	X X X	151 866 2 094 18 632
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	×	238 901 152 249
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal	× ×	
	products)	XX	27 356 14 106
32521101	Plastics materials and resins	XX	23 538 38 733
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	18 873
32599801	Foundry chemicals, metal treating compounds, and plating compounds	x x	N 230 792 281 251
32500067	Other chemicals and allied products (excluding plastics materials and resins, paints, varnishes and allied products, foundry chemicals, metal treating compounds, and plating compounds)	x	136 795
	1997.	â	111 904
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	××	26 527 19 785
00970099	All other materials and components, parts, containers, and supplies	X	176 807
00971000	Materials, ingredients, containers, and supplies, nsk	X X X	228 855 356 140 386 260

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.